



**ALAMEDA
MUNICIPAL POWER**

A Department of the City of Alameda

A GUIDE TO THE MODERN LIGHT BULB

ENERGY STAR LED BULBS



- Use 70 to 80% less energy than incandescent bulbs
- Save \$30 to \$80 in annual energy bills
- Provide the same brightness (lumens) with less energy (watts)
- Last 10 to 25 times longer than incandescent bulbs
- Help protect the environment and reduce climate change

























VARIETY OF SHAPES AND SIZES

ENERGY STAR certified LED bulbs are available in a variety of shapes and sizes for any application, including recessed cans, track lighting, table lamps, and more. You can even find certified bulbs that are dimmable. Use this chart to the right as a guide to finding the right LED for the right fixture.




BRIGHTNESS

For brightness, look for lumens, not watts. Lumens indicate light output. Watts indicate energy consumed. LEDs provide the same brightness (lumens) with less energy (watts). Use the chart below to match the brightness of your old incandescent bulbs, and make a cost comparison.

LUMENS	 INCANDESCENT	 LED
450 lumens	40 W \$4.51	5 W \$0.57/yr
800 lumens	60 W \$6.76/yr	10 W \$1.13/yr
1110 lumens	75 W \$8.45/yr	15 W \$1.69/yr
1600 lumens	100 W \$11.26/yr	19 W \$2.14/yr
TYPICAL LIFE	1 YEAR	10 - 25 YEARS

FIXTURES	LED BULB TYPES				
TABLE / FLOOR LAMPS		 A SHAPE			
PENDANT FIXTURES		 A SHAPE	 CANDLE	 GLOBE	 MR16
CEILING FIXTURES		 A SHAPE	 CANDLE		
CEILING FANS		 A SHAPE	 CANDLE		
WALL SCONCES		 A SHAPE	 CANDLE	 GLOBE	
RECESSED CANS		 MR16	 SPOT	 FLOOD	
ACCENT LIGHTING		 MR16	 SPOT		

COLOR/APPEARANCE

2700K	3000K	3500K	4100K	5000K	6500K
▲ WARM			COOL ▲		
					
WARM WHITE/SOFT WHITE Standard color of incandescent bulbs	COOL WHITE/NATURAL WHITE Good for kitchens and work spaces	NATURAL/DAYLIGHT Blue Sky Good for reading			

- LEDs are available in a wide range of colors.
- Light color, or appearance, matches a temperature on the Kelvin scale (K).
- Lower K means warmer, yellowish light, while higher K means cooler, bluer light.



Always look for the Energy Star label when choosing your LED bulbs.